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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,490	04/15/2005	Christophe Fichot	NITROF P61AUS	8718
	7590 05/19/200 D & Daniels, P.L.L.C.		EXAMINER	
112 PLEASAN	T STREET		PARSLEY, DAVID J	
CONCORD, NH 03301			ART UNIT	PAPER NUMBER
			3643	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comments	10/531,490	FICHOT ET AL.			
Office Action Summary	Examiner	Art Unit			
	DAVID J. PARSLEY	3643			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 04 Fe	bruary 2008				
·= · ·	· · · · · · · · · · · · · · · · · · ·				
·=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
ologod in addordance with the practice and c	x parte gaayle, 1000 G.B. 11, 10	0.0.210.			
Disposition of Claims					
 4) ☐ Claim(s) 14-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 					
6)⊠ Claim(s) <u>14-33</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 15 April 2005 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) Notice of References Cited (PTO-892)					

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Detailed Action

Amendment

1. This office action is in response to applicant's amendment dated 2-4-08 and this action is final.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-19, 21-22, 27-30 and 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,133,261 to Kelsey in view of FR Patent No. 2820495 or alternatively in view of FR Patent No. 852603 and further in view of U.S. Patent No. 5,259,320 to Brooks.

Referring to claims 14-16, 27 and 33, Kelsey discloses an ammunition projectile for a firearm, having diminished penetration into a soft medium, the projectile comprising a nose – at 14,15,17,20,21,22, and a cap – at 12,16, the nose forming a leading end of the projectile and being essentially conical in shape and has a flat leading central portion –at 15,19,24 – see figures 1-2a, and comprises at least two indentations – at 17, disposed essentially symmetrically in

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relation to one of an axis of the projectile and a respective longitudinal axial plane of the projectile and a longitudinal plane bisecting the projectile along a central longitudinal axis – at 29, - see figures 1-2a, each indentation having a curved profile from a first edge to a second edge symmetrical with respect to one of the respective longitudinal axis of the projectile and the respective longitudinal axial plane – see at 17,20,24,25,26 in figures 1-2a, and tapering toward the nose – see figure 1, so that the projectile during trajectory of the projectile through air, is sufficiently slowed so as to diminish penetration of the projectile into a soft medium without significantly altering a trajectory precision of the projectile – see figures 1-2 and column 2 lines 45-63. Kelsey does not disclose each respective indentation being disposed essentially symmetrically in relation to a respective longitudinal axial plane coincident with a central longitudinal axis of the projectile and bisecting the respective indentation. The French patent '495 does disclose each respective indentation – at 6, being disposed essentially symmetrically in relation to a respective longitudinal axial plane coincident with a central longitudinal axis of the projectile and bisecting the respective indentation – see figures 1-6. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey and add the indentations of the French patent '495, so as to allow for the device to be made aerodynamic for stable flight. Alternatively the French patent '603 discloses each respective indentation—at 11, being disposed essentially symmetrically in relation to a respective longitudinal axial plane coincident with a central longitudinal axis of the projectile and bisecting the respective indentation - see figures 1-2. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey and add the indentations of the French patent '603, so as to allow for the device to be made aerodynamic for stable flight. Kelsey further does not disclose a

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trailing portion of each of the at least two indentations is curved and a portion of each opposed sidewall is straight and tapers toward a leading portion of the indentation. Brooks does disclose a trailing portion of each of the at least two indentations is curved – see at 152' in figure 46, and a portion of each opposed sidewall is straight – see proximate 33 in figure 46, and tapers toward a leading portion of the indentation – see proximate 33 in figure 46. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey and add the shape of the indentation of Brooks, so as to allow for the impact of the bullet into an object to be controlled. Kelsey as modified by the French patent '495 and Brooks or Kelsey as modified by the French patent '603 and Brooks further discloses a perimeter of each of the at least two indentations comprises a curved leading portion – see proximate 111', a curved trailing portion – see proximate 152', a first straight sidewall connecting a first end of the curved leading portion with a first end of the curved trailing portion - see proximate 33, and a second straight edge sidewall connecting a second end of the curved leading portion with a second end of the curved trailing portion - see proximate 33 in figure 46 of Brooks. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey and add the shape of the indentation of Brooks, so as to allow for the impact of the bullet into an object to be controlled. Kelsey as modified by the French patent '495 and Brooks or Kelsey as modified by the French patent '603 and Brooks further discloses the hollow areas are formed of two curvilinear planes whose intersection is defined by a radial ridge – see proximate 33 in figure 1 of Brooks, and a radius of curvature of the trailing portion – at the bottommost tip, is greater than a radius of curvature of the leading portion of each of the at least two indentations - see at the uppermost tip in figure 1 of Brooks. Therefore it would have been obvious to one of ordinary skill in the art to take the

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device of Kelsey and add the shape of the indentation of Brooks, so as to allow for the impact of the bullet into an object to be controlled.

Referring to claim17, Kelsey as modified by the French patent '495 and Brooks or Kelsey as modified by the French patent '603 and Brooks further discloses the nose comprises a flat central portion – see at 15,19,24 in figures 1-2a of Kelsey.

Referring to claim 28, Kelsey as modified by the French patent '495 and Brooks and Kelsey as modified by the French patent '603 and Brooks further disclose a leading central portion of the nose is flat - see at 15,19,24 in figures 1-2a of Kelsey, and a radius of curvature of the trailing portion – at the bottommost tip, is greater than a radius of curvature of the leading portion of each of the at least two indentations - see at the uppermost tip in figure 1 of Brooks. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey and add the shape of the indentation of Brooks, so as to allow for the impact of the bullet into an object to be controlled.

Claims 18 and 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kelsey as modified by the French patent '495 and Brooks or Kelsey as modified by the French patent '603 and Brooks as applied to claims 17 or 28 above. Kelsey as modified by the French patent '495 and Brooks or Kelsey as modified by the French patent '603 and Brooks further discloses a diameter of the flat central portion is smaller than the diameter of the projectile at a base of the nose – see figures 1-2a of Kelsey. Kelsey as modified by the French patent '495 and Brooks and Kelsey as modified by the French patent '603 and Brooks do not disclose a diameter of the flat central portion generally ranges from 10 to 50% of a diameter of the projectile at a base of the nose and preferably from one fourth to one third of the diameter of the projectile. However,

applicant does not disclose that the diameter of the flat central portion is from 10 to 50% of the diameter of the projectile at a base of the nose is critical to the operation of the invention.

Therefore, it is deemed that the device of Kelsey as modified by the French patent '495 and Brooks and Kelsey as modified by the French patent '603 and Brooks is capable of operating with the diameter of the flat central portion being from 10 to 50% of the diameter of the projectile at a base of the nose and it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495 and Brooks and Kelsey as modified by the French patent '603 and Brooks and add the diameter of the flat central portion being from 10 to 50% of the diameter of the projectile at a base of the nose, so as to allow for the device to be made more aerodynamic to improve the flight characteristics of the device.

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Referring to claims 19 and 30, Kelsey as modified by the French patent '603 and Brooks and Kelsey as modified by the French patent '495 and Brooks further discloses the nose and cap further comprise a cavity - see figure 1 of Brooks.

Referring to claims 21-22 and 32, Kelsey as modified by the French patent '495 and Kelsey as modified by the French patent '603 do not disclose the projectile is made of a soft metal being copper. Brooks does disclose the projectile is made of copper – see column 6 lines 1-17. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495 and Kelsey as modified by the French patent '603 and add the projectile made of copper of Brooks, so as to allow for the device to be easily manufactured and machined.

Claims 20, 23-25 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelsey as modified by the French patent '495 and Brooks or Kelsey as modified by the French

patent '603 and Brooks as applied to claims 19 or 30 above, and further in view of U.S. Patent No. 4,450,769 to Moser.

Referring to claims 20 and 31, Kelsey as modified by the French patent '495 and Brooksand Moser and Kelsey as modified by the French patent '603 and Brooks and Moser further discloses the cavity is designed to receive a blocking means – at 19 and/or 20 – see the drawing figure of Moser. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495 and Moser and Kelsey as modified by the French patent '603 and Moser and add the blocking member of Moser, so as to allow for the center of gravity of the device to be modified.

Referring to claim 25, Kelsey as modified by the French patent '495, Brooks and Moser and Kelsey as modified by the French patent '603, Brooks and Moser further discloses the cavity comprises a central zone – see the interior at 17-19 in the drawing figure of Moser, that is at least partially threaded – see at 17, and the blocking means is a bolt – at 19 or 20, partially engaged in the central zone – see the drawing figure of Moser. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495, Brooks and Moser and Kelsey as modified by the French patent '603, Brooks and Moser and add the blocking means of Moser, so as to allow for the center of gravity of the device to be modified.

Claims 23-24 rejected under 35 U.S.C. 103(a) as being unpatentable over Kelsey as modified by the French patent '495, Brooks and Moser and Kelsey as modified by the French patent '603, Brooks and Moser as applied to claim 20 above. Kelsey as modified by the French patent '495, Brooks and Moser and Kelsey as modified by the French patent '603, Brooks and

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Moser does not disclose the blocking means is made of a hard metal being steel. However, applicant does not disclose that the blocking means being made of steel is critical to the operation of the invention and it is deemed that the device of Kelsey as modified the French patent '495, Brooks and Moser and Kelsey as modified by the French patent '603, Brooks and Moser is capable of operating with the blocking means made of steel. Therefore it would have been obvious to one of ordinary skill in the art to take the device Kelsey as modified by the French patent '495, Brooks and Moser and Kelsey as modified by the French patent '603, Brooks and Moser and add the blocking means being made of steel, so as to allow for the device to be made more durable.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kelsey as modified by the French patent '495 and Brooks or Kelsey as modified by the French patent '603 and Brooks as applied to claim 14 above, and further in view of U.S. Patent No. 5,385,100 to Corzine et al. Kelsey as modified by the French patent '495 and Brooks and Kelsey as modified by the French patent '603 and Brooks do not disclose the projectile is made of brass. Corzine et al. does disclose the projectile is made of brass – see column 5 lines 41-50. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495 and Brooks and Kelsey as modified by the French patent '603 and Brooks and add the projectile made of brass of Corzine et al., so as to allow for the device to be easily manufactured and made more durable.

Claims 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelsey as modified by the French patent '495 or Kelsey as modified by the French patent '603 as applied to claim 27 above, and further in view of U.S. Patent No. 4,450,769 to Moser.

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Referring to claim 30, Kelsey as modified by the French patent '495 and Kelsey as modified by the French patent '603 do not disclose the nose and the cap comprise a cavity.

Moser does disclose the nose and the cap comprise a cavity – see at 17-19 in the drawing figure. Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495 and Kelsey as modified by the French patent '603 and add the cavity in the nose and cap of Moser, so as to allow for the center of gravity of the device to be modified.

Referring to claim 31, Kelsey as modified by the French patent '495 and Moser and Kelsey as modified by the French patent '603 and Moser further discloses the cavity is designed to receive a blocking means/member – at 19 and/or 20 – see the drawing figure of Moser.

Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495 and Moser and Kelsey as modified by the French patent '603 and Moser and add the blocking member of Moser, so as to allow for the center of gravity of the device to be modified.

Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kelsey as modified by the French patent '495 and Kelsey as modified by the French patent '603 as applied to claim 27 above, and further in view of U.S. Patent No. 5,259,320 to Brooks.

Referring to claim 32, Kelsey as modified by the French patent '495 and Kelsey as modified by the French patent '603 does not disclose the projectile is made of a soft metal being copper. Brooks does disclose the projectile is made of copper – see column 6 lines 1-17.

Therefore it would have been obvious to one of ordinary skill in the art to take the device of Kelsey as modified by the French patent '495 and Kelsey as modified by the French patent '603

and add the projectile made of copper of Brooks, so as to allow for the device to be easily manufactured and machined.

Response to Arguments

Applicant's arguments with respect to claims 14-33 have been considered but are 3. moot in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID J. PARSLEY whose telephone number is (571)272-

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Poon can be reached on (571) 272-6891. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

6890. The examiner can normally be reached on Monday-Friday from 8am to 4pm.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David J Parsley/ Primary Examiner, Art Unit 3643